

Title (en)

Centering adaptor for an anti-armour kinetic energy penetrator.

Title (de)

Zentrieradapter für ein panzerbrechendes Wuchtgeschoss.

Title (fr)

Raccords à centrage pour projectile perforant à énergie cinétique.

Publication

EP 0161367 A2 19851121 (EN)

Application

EP 84308915 A 19841219

Priority

CA 452546 A 19840419

Abstract (en)

A conversion assembly for converting a practice warhead (10) into an armour penetrating warhead (30) is disclosed. The practice warhead (10) is the type having a plastic shell (11) with sockets (20, 22) at both ends for receiving a metal ballast, such as a steel rod (24). The conversion assembly consists of a penetrator rod (32) of heavy metal with an outside diameter ($D_{\text{sub}R}$) substantially less than the inside diameter of the sockets (20, 22) in the shell (11) and two adaptor cups (34) of elastomeric material that are stretched over the ends of the penetrator rod (32) and then fitted into the sockets in the shell. The adaptor cups (34) each have, in the relaxed state, a substantially uniform peripheral wall thickness, an inner diameter slightly less than the outside diameter ($D_{\text{sub}R}$) of the penetrator rod (32) and an outside diameter slightly less than the inside diameter of the sockets (20, 22) in the shell (11). In preferred embodiments, the adaptor cup (34) has a boss (40) on its end wall or base to provide a flexible cushion to absorb differential expansion of the penetrator rod (32) and the shell (11). It is further preferred that the elastomeric material be relatively hard, eg. a Shore A hardness of 70.

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Cited by

DE19613862A1; DE3919172A1; EP0853228A1; US6119600A; NL9101418A; CH675769A5; US9267774B2

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